

WHAT IS CLAIMED IS:

5

1. A transmission controller which controls a plurality of downlink transmission rates corresponding to a plurality of communications terminals based on a plurality of downlink transmission qualities corresponding to the communications terminals, comprising:

a transmission-quality obtaining unit configured to obtain said downlink transmission qualities of said communications terminals;

15 a communications-terminal selecting unit configured to select out of said communications terminals one or more which cause to change corresponding one or more of the downlink transmission rates in accordance with said downlink transmission qualities obtained at said transmission-quality obtaining unit; and

20 a transmission-rate changing unit which causes to change said one or more of the downlink transmission rates corresponding to said one or more of the communications terminals selected at said communications-terminal selecting unit.

30

2. The transmission controller as claimed in claim 1,

wherein said transmission-quality obtaining

unit further comprises:

one of a transmission-quality measuring unit configured to measure said downlink transmission qualities by said transmission-quality measuring unit  
5 itself and a transmission-quality receiving unit configured to receive said downlink transmission qualities measured by and reported from said communications terminals.

10

3. The transmission controller as claimed in claim 1,

15 wherein said communications-terminal selecting unit selects, as said one or more of the communications terminals which cause to change said corresponding downlink transmission rates, at least one out of said communications terminals with corresponding  
20 downlink transmission quality falling below a predetermined quality.

25

4. The transmission controller as claimed in claim 2,

wherein said communications-terminal selecting unit selects said one or more of the communications  
30 terminals which cause to change said corresponding downlink transmission rates based on at least one of transmission speeds corresponding to said communications terminals, travelling speeds corresponding to said

communications terminals, received-quality values  
reported from the corresponding communications terminals,  
arrival times of said received-quality values reported,  
and arrival orders of said received-quality values  
5 reported.

10           5.     The transmission controller as claimed  
in claim 2,  
              wherein said communications-terminal selecting  
unit selects randomly said one or more of the  
communications terminals which cause to change said  
15 corresponding downlink transmission rates.

20           6.     The transmission controller as claimed  
in claim 2,  
              wherein said communications-terminal selecting  
unit selects said one or more of the communications  
terminals which cause to change said corresponding  
25 downlink transmission rates based on a plurality of  
ratios relative to a predetermined power value of a  
plurality of total-transmission power values  
corresponding to said communications terminals.

30

7.     A wireless base station which controls a

plurality of downlink transmission rates corresponding to a plurality of mobile stations based on a plurality of downlink transmission qualities corresponding to the mobile stations, comprising:

5           a transmission-quality obtaining unit configured to obtain said downlink transmission qualities of said mobile stations;

          a mobile-station selecting unit configured to select out of said mobile stations one or more which  
10 cause to change corresponding one or more of the downlink transmission rates in accordance with said downlink transmission qualities obtained at said transmission-quality obtaining unit; and

          a transmission-rate changing unit which causes  
15 to change said one or more of the downlink transmission rates corresponding to said one or more of the mobile stations selected at said mobile-station selecting unit.

20

8. A method of controlling transmission rate which controls a plurality of downlink transmission rates corresponding to a plurality of communications terminals based on a plurality of downlink transmission  
25 qualities corresponding to the communications terminals, comprising the steps of:

          obtaining said downlink transmission qualities of said communications terminals;

          comparing with a predetermined quality value  
30 corresponding values of said downlink transmission qualities obtained;

          selecting, when at least one of said downlink transmission qualities is determined to fall

below a predetermined quality, as one or more of the  
communications terminals which cause to change  
corresponding one or more of the downlink transmission  
rates, at least one communications terminal out of  
5 said communications terminals with corresponding  
downlink transmission quality falling below said  
predetermined quality; and

changing said downlink transmission rate of  
said at least one communications terminal selected.

10

15

20

25

30